EU-Type Examination Certificate

[2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE **2014/34/EU**

[3] **EU-Type Examination Certificate Number:** **Presafe 17 ATEX 6990X** **Issue 1**

[4] **Product:** **High voltage flameproof three-phase induction motor**

[5] **Manufacturer:** **Hoffmann Technics AG.**

[6] **Address:** Sittertalstrasse 34
9014 St. Gallen
Switzerland

[7] **This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.**

[8] **DNV GL Nemko Presafe AS, notified body number 2460, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.**
The examination and test results are recorded in confidential reports listed in section 16.

[9] **Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2012/A11:2013 and EN 60079-1:2007**

[10] **If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.**

[11] **This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.**

[12] **The marking of the product shall include the following:**

II 2 G Ex d IIB T4 Gb

Bjørn Spongsveen
For DNV GL Nemko Presafe AS
The Certificate has been digitally signed.
See www.presafe.com/digital_signatures for more info

NORSK AKKREDITERING
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Date of issue: 2017-10-19

EU-Type Examination Certificate

[13] **Schedule**

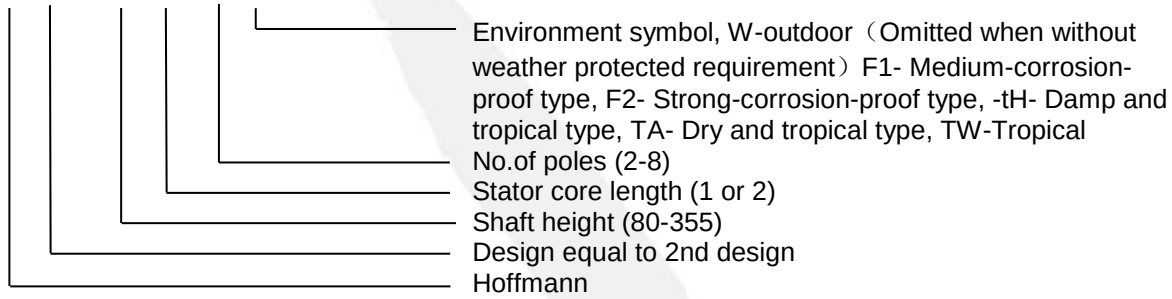
[14] **EU-TYPE EXAMINATION CERTIFICATE No.:** **Presafe 17 ATEX 6990X** Issue 1

[15] **Description of Product**

Series of flameproof three-phase induction motor are intended for use in potentially explosive atmospheres. They can adopt foot mounting, flange mounting & foot/flange mounting. The duty is S1. The motors are adopted with total enclosed structure and insulation class F. The code of cooling is IC411.
The motor is composed of main body, main terminal box and one auxiliary terminal box. There are terminal bushings between main body and terminal box. The material of bushing is DX[1969]. There is one cable gland with rubber sealing ring which form an integral part of the completed motor.

The yield stress of the fastener elements of each part of the flame proof casing must be at least equal to 640N/mm^2

Type designation key example:
HJ 2X - 132 M - 4 W



Electrical Data
6.6kV, 6kV, 5.5kV, 3.6kV, 3.3kV or 3kV 50Hz

Degrees of protection (IP Code)
IP55

Ambient temperature:
-20°C to +40°C

Routine tests
According to EN 60079-1, clause 16, a static pressure test must be performed on every motor.
The test pressure is:
HJ 2X-355 Main body: 5.5Mpa , Terminal box: 1.2Mpa, auxiliary box: 0.9Mpa
HJ 2X-400 Main body: 3.5Mpa , Terminal box: 1.2Mpa, auxiliary box: 0.9Mpa

Every unit shall withstand the static pressure of lasting between 10s and 60s.

[16] Report No.: D0001918

[17] Specific Conditions of Use

Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of EN/IEC 60079-1

[18] Essential Health and Safety Requirements

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

[19] Drawings and documents

Number	Title	Rev.	Date
YB2 355... Series drawing			
1EE.070.1896.1-10 1EE.070.1897.1-13	General assembly drawing	d d	2014-5 2014-5
8EE.013.3751 8EE.013.3752 8EE.013.3753 8EE.013.3754	End shield	original original original original	2012-7 2012-7 2012-7 2012-7
T5EE.110.005	Auxiliary junction box cable connector bush M20*1.5 (for heater, 4 cores)	original	2013-8
T5EE.110.004	Auxiliary junction box cable connector bush M20*1.5 (for stator and bearing temperature detector 18 cores)	a	2014-7
T5EE.354.033	Auxiliary junction box	a	2014-5
T8EE.353.024	Auxiliary junction box cover	original	2013-8
T8EE.354.020	Auxiliary junction box seat	b	2014-7
5EE.264.255.1-11	Bearing assembly (drive end)	original	2003-5
5EE.264.256.1-10	Bearing assembly (non-drive end)	original	2003-5
8EE.263.484 8EE.263.490	Inner bearing cover (drive end)	original	2003-5 2003-5
8EE.263.483 8EE.263.486	Inner bearing cover (non-drive end)	original	2003-5 2003-5

5EE.306.1884 5EE.307.080 5EE.306.1749.1-2	Fan cover	original	2012-7 2012-7 2010-12
T5EE.435.001 T5EE.435.002 T5EE.435.003 T5EE.435.004	External fan	b b a a	2014-5 2014-5 2005-6 2005-6
8EE.034.2003.1-5	Frame	d	2014-5
5EE.350.002 T5EE.350.001	Terminal box pedestal	e original	2008-5 2012-11
5EE.674.3214.1-5(2P) 5EE.674.3215.1-5(4P) 5EE.674.3216.1-3(6P)	Rotor	b b b	2014-5 2014-5 2014-5
8EE.200.2973.1-5 (2P) 8EE.200.2974.1-5 (4P) 5EE.200.626.1-3（6P）	Shaft	b b b	2014-5 2014-5 2010-12
5EE.671.3518.1-13	Stator	d	2014-5
T5EE.354.031	Terminal box 6.6kV	a	2014-4
T8EE.353.022	Terminal box cover 6.6kV	b	2014-4
T8EE.354.018	Terminal box seat 6.6kV	a	2014-4
T5EE.775.002.1-4	Terminal bushing M16	original	2012-11
T8EE.516.007.1-7	Terminal bolt M16	original	2012-11
T8EE.370.006	Sealing ring (Main terminal box)	original	2012-11
T8EE.064.011	Connection terminal board (heater)	original	2013-8
T8EE.064.010	Connection terminal board (stater and bearing temperature detector)	original	2013-8
YB2 400... Series drawing			
1EE.070.1898.1-4 1EE.070.1899.1-12	General assembly drawing	d d	2014-5 2014-5
8EE.013.3745 8EE.013.3746 8EE.013.3747 8EE.013.3748	End shield	original original original original	2012-7 2012-7 2012-7 2012-7
T5EE.110.005	Auxiliary junction box cable connector bush M20*1.5 (for heater, 4 cores)	original	2013-8
T5EE.110.004	Auxiliary junction box cable connector bush M20*1.5 (for stator and bearing temperature detector 18 cores)	a	2014-7
T5EE.354.033	Auxiliary junction box	a	2014-5
T8EE.353.024	Auxiliary junction box cover	original	2013-8
T8EE.354.020	Auxiliary junction box seat	b	2014-7
5EE.264.255.1~11	Bearing assembly (drive end)	original	2003-5
5EE.264.256.1~10	Bearing assembly (non-drive end)	original	2003-5

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8EE.263.487, 8EE.263.492	Inner bearing cover (drive end)	original original	2003-5 2003-5
8EE.263.485, 8EE.263.489	Inner bearing cover (non-drive end)	original original	2003-5 2003-5
5EE.306.1876 5EE.306.1882 5EE.306.1747.1-2	Fan cover	original original a	2012-8 2012-8 2014-5
T5EE.435.005 T5EE.435.006 T5EE.435.007 T5EE.435.008	External fan	b b a a	2014-5 2014-5 2005-6 2005-6
8EE.034.1927.1-5	Frame	d	2014-5
5EE.350.002 T5EE.350.001	Terminal box pedestal	e original	2008-5 2012-11
5EE.674.3190.1-4(2P) 5EE.674.3191.1-12(4-8P)	Rotor	a a	2014-5 2014-5
8EE.200.2972.1-4 (2P) 8EE.200.624.1-4 (4P) 8EE.200.625.1-4 (6-8P)	Shaft	a b b	2014-5 2014-5 2014-5
5EE.671.3515.1-4 5EE.671.3516.1-12	Stator	d d	2014-5 2014-5
T5EE.354.031	Terminal box 6.6kV	a	2014-4
T8EE.353.022	Terminal box cover 6.6kV	b	2014-4
T8EE.354.018	Terminal box seat 6.6kV	a	2014-4
T5EE.775.002.1-4	Terminal bushing M16	original	2012-11
T8EE.516.007.1-7	Terminal bolt M16	original	2012-11
T8EE.370.006	Sealing ring (Main terminal box)	original	2012-11
T8EE.064.011	Connection terminal board (heater)	original	2013-8
T8EE.064.010	Connection terminal board (stater and bearing temperature detector)	original	2013-8
C1-JX5361-3A1	Name plate	A1	2017-07-30

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2017-07-31	D0001918
1	Corrections in type designation key	2017-10-19	D0001918

END OF CERTIFICATE

DNV GL Nemko Presafe AS, Veritasveien 3, 1363 Høvik, Norway